



Report of Analysis

For: SW-NWDO

Ohio EPA

Bowling Green, OH 43402

Attn: Dan Glomski

Report Date: 7/2/2019

BGSU Lake Erie Open Water Pilot 2017

Site: BGSU - SB
Location: ODNR 1
Client Sample ID:
Collector:
Client info:
Lab/Field Comment:

Lab Sample ID: 19052210-01
Collection Date: 6/17/2019 12:54 PM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	99.7	99.7	ug/L	10	1.12	6/21/2019
Pheophytin_a	440.1 (445)	< 5.60	4.49	ug/L	10	5.60	U-, UJ 6/21/2019
Microcystins	701	10.5	10.5	ug/L	10	3.00	6/26/2019

Site: BGSU - SB
Location: ODNR 2
Client Sample ID:
Collector:
Client info:
Lab/Field Comment:

Lab Sample ID: 19052210-02
Collection Date: 6/17/2019 12:18 PM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	101	101	ug/L	10	1.12	6/21/2019
Pheophytin_a	440.1 (445)	< 5.60	3.13	ug/L	10	5.60	U-, UJ 6/21/2019
Microcystins	701	15.2	15.2	ug/L	10	3.00	6/26/2019

Site: BGSU - SB
Location: ODNR 4
Client Sample ID:
Collector:
Client info:
Lab/Field Comment:

Lab Sample ID: 19052210-03
Collection Date: 6/17/2019 10:35 AM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	6.21	6.21	ug/L	1	0.112	J 6/21/2019
Chlorophyll_a estimated due to matrix interference.							
Pheophytin_a	440.1 (445)	6.60	6.60	ug/L	1	0.560	J 6/21/2019
Microcystins	701	< 0.300	0.0230	ug/L	1	0.300	6/26/2019



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Bowling Green, OH 43402

Attn: Dan Glomski

Report Date: 7/2/2019

BGSU Lake Erie Open Water Pilot 2017

Site: BGSU - SB

Location: ODNR 6

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052210-04

Collection Date: 6/17/2019 11:20 AM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	34.9	34.9	ug/L	10	1.12	6/21/2019
Pheophytin_a	440.1 (445)	16.3	16.3	ug/L	10	5.60	J 6/21/2019
Microcystins	701	4.45	4.45	ug/L	2	0.600	7/1/2019

Site: Duplicate

Location: Duplicate

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052210-05

Collection Date: 6/17/2019

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	98.5	98.5	ug/L	10	1.12	6/21/2019
Pheophytin_a	440.1 (445)	< 5.60	3.22	ug/L	10	5.60	U-, UJ 6/21/2019
Microcystins	701	12.4	12.4	ug/L	10	3.00	6/26/2019

Site: Replicate

Location: Replicate

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052210-06

Collection Date: 6/17/2019

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	37.6	37.6	ug/L	10	1.12	6/21/2019
Pheophytin_a	440.1 (445)	< 5.60	1.09	ug/L	10	5.60	U-, UJ 6/21/2019
Microcystins	701	4.20	4.20	ug/L	2	0.600	7/1/2019



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Report Date: 7/2/2019

BGSU Lake Erie Open Water Pilot 2017

Site: Field Blank

Location: Field Blank

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052210-07

Collection Date: 6/17/2019 11:10 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	< 0.112	0.0291	ug/L	1	0.112	U- 6/21/2019
Pheophytin_a	440.1 (445)	< 0.560	0.0129	ug/L	1	0.560	U-, UJ 6/21/2019
Microcystins	701	< 0.300	0.00	ug/L	1	0.300	6/26/2019

Site: Stone Lab - GiW

Location: GiW

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052216-01

Collection Date: 5/31/2019 1:50 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	5.49	5.49	ug/L	1	0.0560	6/28/2019
Pheophytin_a	440.1 (445)	1.12	1.12	ug/L	1	0.280	J 6/28/2019
Microcystins	701	< 0.300	0.0530	ug/L	1	0.300	7/1/2019

Site: Stone Lab - NBlw

Location: NBlw

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052216-02

Collection Date: 5/31/2019 1:15 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.31	2.31	ug/L	1	0.0560	6/28/2019
Pheophytin_a	440.1 (445)	1.32	1.32	ug/L	1	0.280	J 6/28/2019
Microcystins	701	< 0.300	0.0360	ug/L	1	0.300	7/1/2019



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Report Date: 7/2/2019

Stone Lab Lake Erie Open Water Pilot 2017

Site: Stone Lab - SL buoy

Location: SL bouy

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052216-03

Collection Date: 5/31/2019 2:45 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	7.53	7.53	ug/L	1	0.0560	6/28/2019
Pheophytin_a	440.1 (445)	1.26	1.26	ug/L	1	0.280	J 6/28/2019
Microcystins	701	< 0.300	0.00	ug/L	1	0.300	7/1/2019

Site: Stone Lab - WB-83

Location: WB-83

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052216-04

Collection Date: 5/31/2019 12:00 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	3.57	3.57	ug/L	1	0.0560	6/28/2019
Pheophytin_a	440.1 (445)	1.11	1.11	ug/L	1	0.280	J 6/28/2019
Microcystins	701	< 0.300	0.0230	ug/L	1	0.300	7/1/2019

Site: Duplicate

Location: Duplicate

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052216-05

Collection Date: 5/31/2019 2:00 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	4.72	4.72	ug/L	1	0.0560	6/28/2019
Pheophytin_a	440.1 (445)	0.929	0.929	ug/L	1	0.280	J 6/28/2019
Microcystins	701	< 0.300	0.0370	ug/L	1	0.300	7/1/2019



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Stone Lab Lake Erie Open Water Pilot 2017

Site: Replicate
Location: Replicate
Client Sample ID:
Collector: Others
Client info:
Lab/Field Comment:

Lab Sample ID: 19052216-06
Collection Date: 5/31/2019 2:06 PM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	5.95	5.95 ug/L	1	0.0560		6/28/2019
Pheophytin_a	440.1 (445)	1.17	1.17 ug/L	1	0.280	J	6/28/2019
Microcystins	701	< 0.300	0.0740 ug/L	1	0.300		7/1/2019

Site: Stone Lab - GiW
Location: GiW
Client Sample ID:
Collector: Others
Client info:
Lab/Field Comment:

Lab Sample ID: 19052217-01
Collection Date: 6/10/2019 10:10 AM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.28	2.28 ug/L	1	0.0400		6/28/2019
Pheophytin_a	440.1 (445)	0.813	0.813 ug/L	1	0.200	J	6/28/2019
Microcystins	701	< 0.300	0.00100 ug/L	1	0.300		7/1/2019

Site: Stone Lab - NBlw
Location: NBlw
Client Sample ID:
Collector: Others
Client info:
Lab/Field Comment:

Lab Sample ID: 19052217-02
Collection Date: 6/10/2019 9:00 AM
Matrix: Water
Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	1.05	1.05 ug/L	1	0.0373		6/28/2019
Pheophytin_a	440.1 (445)	0.920	0.920 ug/L	1	0.187	J	6/28/2019
Microcystins	701	< 0.300	0.0110 ug/L	1	0.300		7/1/2019



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Stone Lab Lake Erie Open Water Pilot 2017

Site: Stone Lab - SL buoy

Location: SL buoy

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052217-03

Collection Date: 6/10/2019 10:48 AM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	0.888	0.888	ug/L	1	0.0373	6/28/2019
Pheophytin_a	440.1 (445)	0.829	0.829	ug/L	1	0.187	J 6/28/2019
Microcystins	701	< 0.300	0.0320	ug/L	1	0.300	7/1/2019

Site: Stone Lab - WB-83

Location: WB-83

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052217-04

Collection Date: 6/10/2019 9:30 AM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	1.32	1.32	ug/L	1	0.0467	6/28/2019
Pheophytin_a	440.1 (445)	1.08	1.08	ug/L	1	0.233	J 6/28/2019
Microcystins	701	< 0.300	0.0410	ug/L	1	0.300	7/1/2019

Site: Field Blank

Location: Field Blank

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052217-07

Collection Date: 6/10/2019 9:45 AM

Matrix: Water

Matrix Type: Reagent Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	< 0.0280	0.0202	ug/L	1	0.0280	U- 6/28/2019
Pheophytin_a	440.1 (445)	< 0.140	0.0421	ug/L	1	0.140	U-, UJ 6/28/2019
Microcystins	701	< 0.300	0.00	ug/L	1	0.300	7/1/2019



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Report Date: 7/2/2019

Stone Lab Lake Erie Open Water Pilot 2017

Site: Stone Lab - GiW

Location: GiW

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052218-01

Collection Date: 6/19/2019 12:20 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	4.93	4.93 ug/L	1	0.0560		6/28/2019
Pheophytin_a	440.1 (445)	0.560	0.560 ug/L	1	0.280	J	6/28/2019
Microcystins	701	< 0.300	0.0170 ug/L	1	0.300		7/1/2019

Site: Stone Lab - NBIW

Location: NBIW

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052218-02

Collection Date: 6/19/2019 1:32 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	5.53	5.53 ug/L	1	0.0560		6/28/2019
Pheophytin_a	440.1 (445)	0.549	0.549 ug/L	1	0.280	J	6/28/2019
Microcystins	701	< 0.300	0.0420 ug/L	1	0.300		7/1/2019

Site: Stone Lab - SL buoy

Location: SL bouy

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052218-03

Collection Date: 6/19/2019 2:15 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	3.25	3.25 ug/L	1	0.0560		6/28/2019
Pheophytin_a	440.1 (445)	1.14	1.14 ug/L	1	0.280	J	6/28/2019
Microcystins	701	< 0.300	0.0600 ug/L	1	0.300		7/1/2019



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Stone Lab Lake Erie Open Water Pilot 2017

Site: Stone Lab - WB-83

Location: WB-83

Client Sample ID:

Collector: Others

Client info:

Lab/Field Comment:

Lab Sample ID: 19052218-04

Collection Date: 6/19/2019 1:00 PM

Matrix: Water

Matrix Type: Surface Water

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	6.34	6.34 ug/L	1	0.0560		6/28/2019
Pheophytin_a	440.1 (445)	0.682	0.682 ug/L	1	0.280	J	6/28/2019
Microcystins	701	< 0.300	0.00 ug/L	1	0.300		7/1/2019

Site: University of Toledo - 4P

Location: 4P

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052238-01

Collection Date: 5/31/2020 10:20 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	3.71	3.71 ug/L	1	0.0560		6/21/2019
Pheophytin_a	440.1 (445)	0.995	0.995 ug/L	1	0.280	J	6/21/2019
Microcystins	701	< 0.300	0.0290 ug/L	1	0.300		6/26/2019

Site: University of Toledo - 7M

Location: 7M

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052238-02

Collection Date: 5/31/2020 1:15 PM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	11.3	11.3 ug/L	10	0.700		6/21/2019
Pheophytin_a	440.1 (445)	< 0.350	0.0938 ug/L	1	0.350	U-, UJ	6/21/2019
Microcystins	701	< 0.300	0.0270 ug/L	1	0.300		6/26/2019



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Bowling Green, OH 43402

Attn: Dan Glomski

Report Date: 7/2/2019

UT Lake Erie Open Water Pilot 2017

Site: University of Toledo - GR1

Location: GR1

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052238-03

Collection Date: 5/31/2020 11:15 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.55	2.55	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	1.24	1.24	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.0350	ug/L	1	0.300	6/26/2019

Site: Duplicate

Location: Duplicate

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052238-04

Collection Date: 5/31/2020

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	3.05	3.05	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	1.26	1.26	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.0400	ug/L	1	0.300	6/26/2019

Site: Replicate

Location: Replicate

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052238-05

Collection Date: 5/31/2020

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	3.96	3.96	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	0.888	0.888	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.00400	ug/L	1	0.300	6/26/2019



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Report Date: 7/2/2019

UT Lake Erie Open Water Pilot 2017

Site: University of Toledo - 4P

Location: 4P

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052239-01

Collection Date: 6/7/2019 9:00 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	1.66	1.66	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	1.29	1.29	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.0180	ug/L	1	0.300	6/26/2019

Site: University of Toledo - 7M

Location: 7M

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052239-02

Collection Date: 6/7/2019 9:45 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	6.74	6.74	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	0.810	0.810	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.0390	ug/L	1	0.300	6/26/2019

Site: University of Toledo - GR1

Location: GR1

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052239-03

Collection Date: 6/7/2019 9:20 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	5.18	5.18	ug/L	1	0.0560	6/21/2019
Pheophytin_a	440.1 (445)	0.626	0.626	ug/L	1	0.280	J 6/21/2019
Microcystins	701	< 0.300	0.0500	ug/L	1	0.300	6/26/2019



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Report Date: 7/2/2019

UT Lake Erie Open Water Pilot 2017

Site: Field Blank

Location: Field Blank

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052239-06

Collection Date: 6/7/2019

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	< 0.0560	0.0213	ug/L	1	0.0560	U- 6/21/2019
Pheophytin_a	440.1 (445)	< 0.280	0.0680	ug/L	1	0.280	U-, UJ 6/21/2019
Microcystins	701	< 0.300	0.00	ug/L	1	0.300	6/26/2019

Site: University of Toledo - 4P

Location: 4P

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052240-01

Collection Date: 6/11/2019 9:55 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.72	2.72	ug/L	1	0.0700	6/21/2019
Pheophytin_a	440.1 (445)	1.73	1.73	ug/L	1	0.350	J 6/21/2019
Microcystins	701	< 0.300	0.0130	ug/L	1	0.300	6/26/2019

Site: University of Toledo - 7M

Location: 7M

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052240-02

Collection Date: 6/11/2019 12:05 PM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.02	2.02	ug/L	1	0.112	6/21/2019
Pheophytin_a	440.1 (445)	0.641	0.641	ug/L	1	0.560	J 6/21/2019
Microcystins	701	< 0.300	0.0430	ug/L	1	0.300	6/26/2019



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Report Date: 7/2/2019

UT Lake Erie Open Water Pilot 2017

Site: University of Toledo - GR1

Location: GR1

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052240-03

Collection Date: 6/11/2019 10:30 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.30	2.30 ug/L	1	0.0560		6/21/2019
Pheophytin_a	440.1 (445)	1.35	1.35 ug/L	1	0.280	J	6/21/2019
Microcystins	701	< 0.300	0.0230 ug/L	1	0.300		6/26/2019

Site: University of Toledo - 4P

Location: 4P

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052241-01

Collection Date: 6/18/2019 9:30 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.13	2.13 ug/L	1	0.0560		6/21/2019
Pheophytin_a	440.1 (445)	1.17	1.17 ug/L	1	0.280	J	6/21/2019
Microcystins	701	< 0.300	0.0230 ug/L	1	0.300		6/26/2019

Site: University of Toledo - 7M

Location: 7M

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052241-02

Collection Date: 6/18/2019 10:20 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	1.72	1.72 ug/L	1	0.0700		6/21/2019
Pheophytin_a	440.1 (445)	1.25	1.25 ug/L	1	0.350	J	6/21/2019
Microcystins	701	< 0.300	0.0400 ug/L	1	0.300		6/26/2019



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Report Date: 7/2/2019

UT Lake Erie Open Water Pilot 2017

Site: University of Toledo - GR1

Location: GR1

Client Sample ID:

Collector:

Client info:

Lab/Field Comment:

Lab Sample ID: 19052241-03

Collection Date: 6/18/2019 9:52 AM

Matrix: Water

Matrix Type:

Analyte	Method	Result	Value	DF	RL	Qual	Date
Chlorophyll_a	440.1 (445)	2.53	2.53 ug/L	1	0.0560		6/21/2019
Pheophytin_a	440.1 (445)	1.13	1.13 ug/L	1	0.280	J	6/21/2019
Microcystins	701	< 0.300	0.0370 ug/L	1	0.300		6/26/2019

NA = not analyzed